

Bermondsey Square TV, Telephone & Data User Guide



Version:	Version 2.0
Date:	November 2012
For:	Residents of Bermondsey Square
Contents:	Instructions on how to use, configure and extend the TV/Satellite & Telephone/Data systems within the apartments at Bermondsey Square
Latest Revision:	www.AbleIS.co.uk/Bermondsey

© Able Infrastructure Solutions 2012

Contents

1	Introduction	5
2	Support & Assistance	7
2.1	General Help & Advice	7
2.2	In Depth Help.....	7
2.3	Download This Guide.....	7
2.4	Cables & Parts.....	7
3	Equipment Cabinet.....	9
3.1	Cabinet	9
3.2	Patching	9
3.3	Leads	10
4	The TV System	11
4.1	General Capability	11
4.2	TV Plate.....	11
4.3	Re-configuring TV Patch Panel	13
4.4	Default TV Configuration.....	14
4.5	Use Return from Lounge to View Sky in Bedrooms	16
4.6	Other Configurations	20
4.7	Viewing Visitors on the TV Set.....	21
5	The Telephone & Data System	22
5.1	Introduction	22
5.2	Inside the Equipment Cabinet.....	22
5.3	Connecting Telephone Extensions	23
5.4	Connecting a Second Line	24
5.5	ADSL Broadband.....	24
6	Other Applications	27
Appendix A	Voice Line Circuit Information	29
Appendix B	BT-RJ45 Patch Lead Schematic	31
Appendix C	Enabling the Sky RF2 Output	32
Appendix D	Commonly Used Leads & Parts.....	33

1 Introduction

This guide is aimed for tenants of the Apartments at Bermondsey Square.

The Bermondsey Square dwellings are equipped with general purpose:

- TV and Satellite reception system
- Telephone/Network system

Whilst these systems are configured to provide adequate TV and Telephone services, there may be significant benefits from understanding how to extend and re-configure the systems to provide more flexible options.



For example, the TV system as installed will only provide satellite signals to the Lounge and Master bedroom. This guide will show you how to re-configure the system to watch and control the Lounge Sky box in any bedroom or use Sky+/SkyHD in any bedroom.

As a further example, the Telephone/Data system as installed will only provide the main telephone line to some of the outlets. This guide will show you how to re-configure the system to provide a second telephone line to any chosen outlet.

This guide describes what the systems do and how to set them up to provide a broader variety of functions.

Note that this guide is aimed at people who have some experience of plugging in and setting up TV's or telephones. If this does not apply to you, please show this guide to the person who is assisting you to set up the TV's and Telephones in your apartment.

2 Support & Assistance

2.1 General Help & Advice

If you require help, please contact the Bermondsey Square managing agent, who will do their best to assist.

2.2 In Depth Help

For more in depth help, feel free to contact Able, who installed and maintain the system.

Able offer a chargeable consultancy service to Bermondsey Square residents for the setting up and configuring of Audio Visual and Computer systems.

Able Infrastructure Solutions
Able House
1 Figtree Hill
Hemel Hempstead
Herts
HP2 5XL
Tel: 01442 219580

Please call during normal working days 8:30 – 17:30.

Alternatively visit the Able web site at www.AbleIS.co.uk/Bermondsey where information about new products and services will be shown.

2.3 Download This Guide

For the latest online version of this manual, visit the Able website at www.AbleIS.co.uk/Bermondsey

2.4 Cables & Parts

The system is supplied with a base set of cables. However, when you are connecting up equipment, you may require additional cables and parts.

A list of the most common parts may be found in Appendix D. These part numbers are referenced in this guide as they are mentioned and shown in *blue italics*.

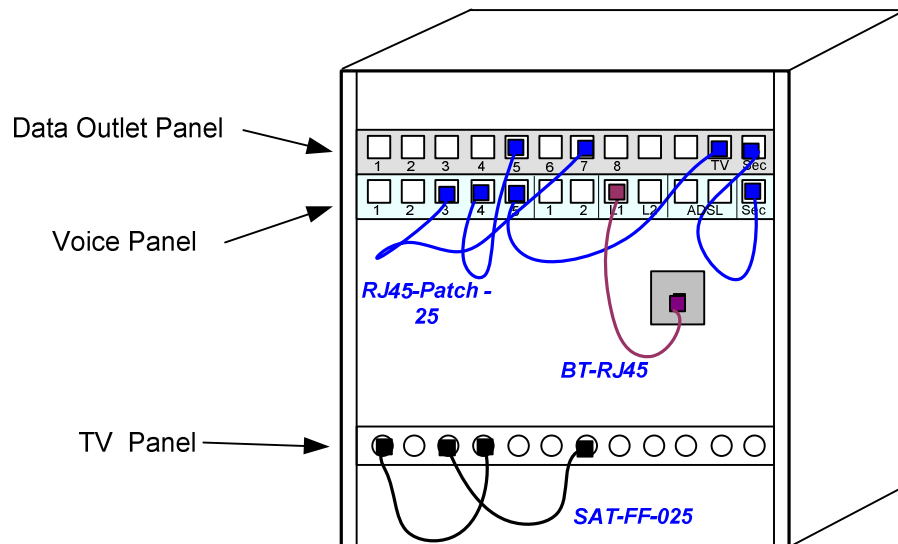
If a particular part is difficult to source this way, they can be obtained from Able, details as above. Please call for more information and prices.

3 Equipment Cabinet

All Private apartments are equipped with a 30cm wide equipment cabinet.

3.1 Cabinet

Most changes to the system will be done in the equipment cabinet. The equipment cabinet is a small white wall mounted cabinet which can be found in the services cupboard. All of the Data/Telephone outlets around the dwelling cables are connected back to the equipment cabinet.



Most changes can be made by re-patching the patch panels within the equipment cabinet (see next section).

More advanced changes can be made by adding equipment to the cabinet. A 2-way power unit is provided outside the cabinet to power such devices. The Equipment Cabinet will house any standard 10-inch mounting equipment.

3.2 Patching

Patching is a term used to describe connecting two sockets on a panel with a patch lead. The patch leads are designed to be easily plugged or unplugged onto/from the patch panels.

In the Equipment Cabinet, two main types of patch lead are used:

- Data patch leads (*RJ45-Patch-025*) (sometimes called RJ45 patch leads). These are used to interconnect sockets on the Data Panel and Voice Panel.
 - To disconnect one end of a lead (the RJ45 plug), squeeze up the plastic end at the bottom of the and simply pull out.
 - To re-connect a lead, push into the socket (ensuring the right way up) until it clicks into place.



- TV patch leads (*SAT-FF-025 or SAT-FF-050*). These are used to interconnect sockets on the TV panel.
 - To disconnect one end of a lead (the F-plug), screw the metal cap anti-clockwise until it come off. Then pull out the lead.
 - To re-connect a lead, carefully push the central copper wire into the socket central hole and then screw the metal cap clockwise until finger tight.



3.3 Leads

The system is installed with sufficient leads to do basic patching. The system was installed in 2008 with:

- One RJ45 data patch lead for every telephone outlet in the apartment (see Section 5.2).
- The quantity of TV leads as shown in section 4.4. This will be three for one bed apartments, eight for two beds and nine for three beds.

However, to connect telephones, televisions, Sky boxes or other equipment, additional leads will be required. Certain leads may be purchased from Able as described in Section 2.4.

The convention used in this guide is that the last three digits of a lead part code refer to the length of the lead in cm. However, if the last three digits are xxx, the lead may be of any suitable length, depending on the requirement. Hence for example, *RJ45-Patch-200* refers to a 2 metre RJ45 patch leads whilst *RJ45-Patch-xxx* refers to an RJ45 patch lead of any length.

4 The TV System

4.1 General Capability

Each Dwelling is provided with signals to allow receiving of any of the following:

- Standard Analogue Terrestrial TV channels (BBC1, BBC2, ITV1, CH4, CH5).
- Freeview. This provide the same five channels as above, plus a number of other free to view channels, such as BBC3, BBC4, BBC News 24, ITV2, ITV3, ITV4 etc.
- freesat. freesat is the new subscription free satellite service, which at the time of writing this guide, had just been launched by the BBC and ITV. Freesat, as well as offering many of the channels offered on Freeview is an excellent way to receive subscription-free HD television.
- Sky Digital (Sky or Sky+, including Sky HD).
- FM and DABS Radio.

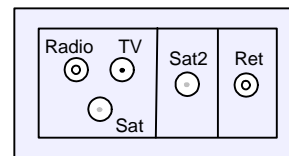


As part of the national 'analogue switch off', it is planned that sometime in 2012 the Analogue Terrestrial broadcast services in the London area will be switched off. From that date on, Freeview or Freesat will be the only ways of receiving 'off air' TV services. If your TV is not equipped with an integrated digital tuner, you will still be able to receive standard TV by purchasing either a Freeview or Freesat set top box.

These signals are provided from a centralised reception system in the Bermondsey Square and should always be of the highest quality.

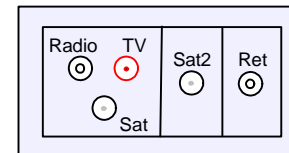
4.2 TV Plate

A TV outlet will be found in the multimedia plate in the lounge and in each of the bedrooms. This outlet provides facilities for receiving standard TV, Satellite and/or Radio. An approximate outlet layout is as shown in the picture. Note that in the bedrooms, the return socket on the right hand side will be replaced with a blank.



Standard TV

A TV plugs into the outlet marked TV (marked in red in the picture) using a standard TV aerial lead ([TV-Aerial-xxx](#)). This outlet is the equivalent of the TV aerial socket to be found in many houses.



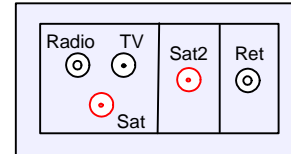
Either standard analogue TV or FreeView Digital TV may be received. Hence for example, a FreeView box may be connected to the TV socket as described in the instructions that come with the FreeView equipment.

Sky Satellite

If you have a Sky subscription and a Sky Digibox, you will be able to receive Sky TV. To do this connect the Digibox to either one or both of the outlets Sat and Sat2 (marked in red in the picture below) using standard satellite leads. A standard Sky Digibox requires one connection,

whilst a Sky+/SkyHD box requires two connections. By default only Sat & Sat2 in the lounge and Sat2 in the master bedroom will be enabled. See the following sections for information and examples on how to re-configure which outlets provide satellite signals.

1. Connect the Sky Digibox Sat 1 input to the Sat outlet (or Sat2 outlet in the Master bedroom) using a satellite lead ([SAT-FF-xxx](#)). If you have brought the Digibox from a home with its own Sky dish, it will not come with a satellite lead, so you will need to obtain one.



If the Digibox is Sky+ or HD, you will also need to connect the Digibox Sat 2 input to the second satellite also shown in red using a second satellite lead ([SAT-FF-xxx](#)).

2. Connect the telephone connection of the Sky box into a data outlet which is configured as a telephone extension. You will be able to use the standard telephone lead that came with the Sky Digibox together with a Telephone adapter ([Tel-Sec](#)). See section 5 for more details. This connection is only required for the reception of Sky interactive services. However, Sky may also require you to connect for contractual reasons.

Note: If you find the Telephone connection does not work, it may be because the Telephone socket has not been properly configured in the Equipment Cabinet. See Section 5.3.

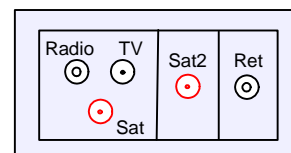
3. Connect your TV or display into the Sky Digibox using the standard TV lead, SCART or others leads supplied with the Digibox.
4. Connect the Sky Digibox Aerial Input to the TV outlet using a standard TV lead ([TV-Aerial-xxx](#)). Note that this connection is only necessary if you are either:
 - Connecting your TV to the Sky Digibox via a TV aerial lead (see previous step) and may use the TV analogue tuner to watch terrestrial TV.
 - Using the return socket to feed the Sky Digibox output to other rooms.

If you already are a Sky subscriber you will be able to setup Sky by following the instructions above. If however, you wish to start a new subscription, please contact Able as shown in Section 2.2 and they will be able to provide assistance on connecting to Sky.

freesat

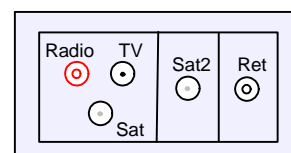
You will be able to receive freesat from the Sat or Sat2 socket. The method of connecting will be very similar to Sky Satellite above.

For a freesat receiver with two satellite inputs (such as TIVO where the receiver has recording capabilities) a connection to Sat2 will also be required.



Radio

If you have an FM or DABS tuner, you can receive high quality signals by plugging the tuner into the FM outlet (shown in red).



4.3 Re-configuring TV Patch Panel

In order to configure which TV outlet receives signals, some re-configuration of the TV patch panel within the cabinet may be required.

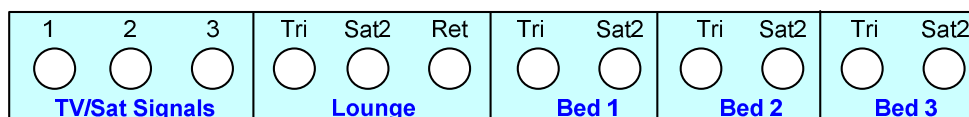
The TV patch panel is sited within the Equipment Cabinet.

Panel Layout

Each dwelling receives three independent TV/Sat Signal feeds from the site TV distribution system. These are presented on the first three outlets of the TV patch panel. In addition to a (switchable) satellite feed, each of the three signals carries the full set of terrestrial signals, including TV analogue, TV digital, VHF and DABS.

The rest of the used panel outlets are connected to the TV outlets within the dwelling, three to the Lounge Sockets and two to each of the Bedroom Sockets.

TV/Sat signals can be connected to outlets, simple by patching F-plug leads between the desired TV/Sat Signal and outlet connection.



The following sections describe popular configurations, including showing the necessary TV Panel patch connections.

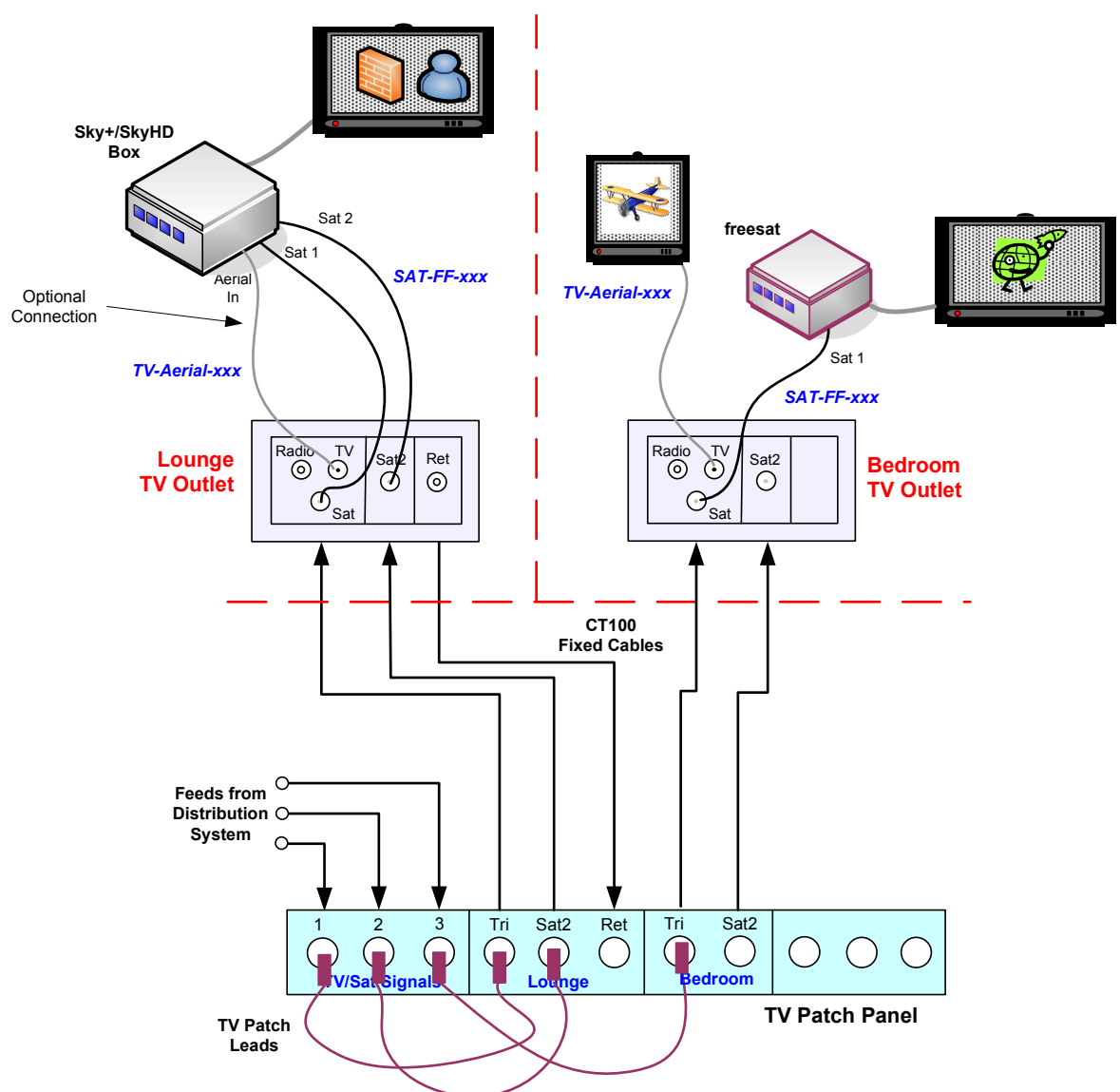
4.4 Default TV Configuration

This is the configuration that was setup and tested when the system was first commissioned in April 2008.

One Bedroom Apartments

This provides Sat and Sat2 in the lounge and Sat2 in the bedroom.

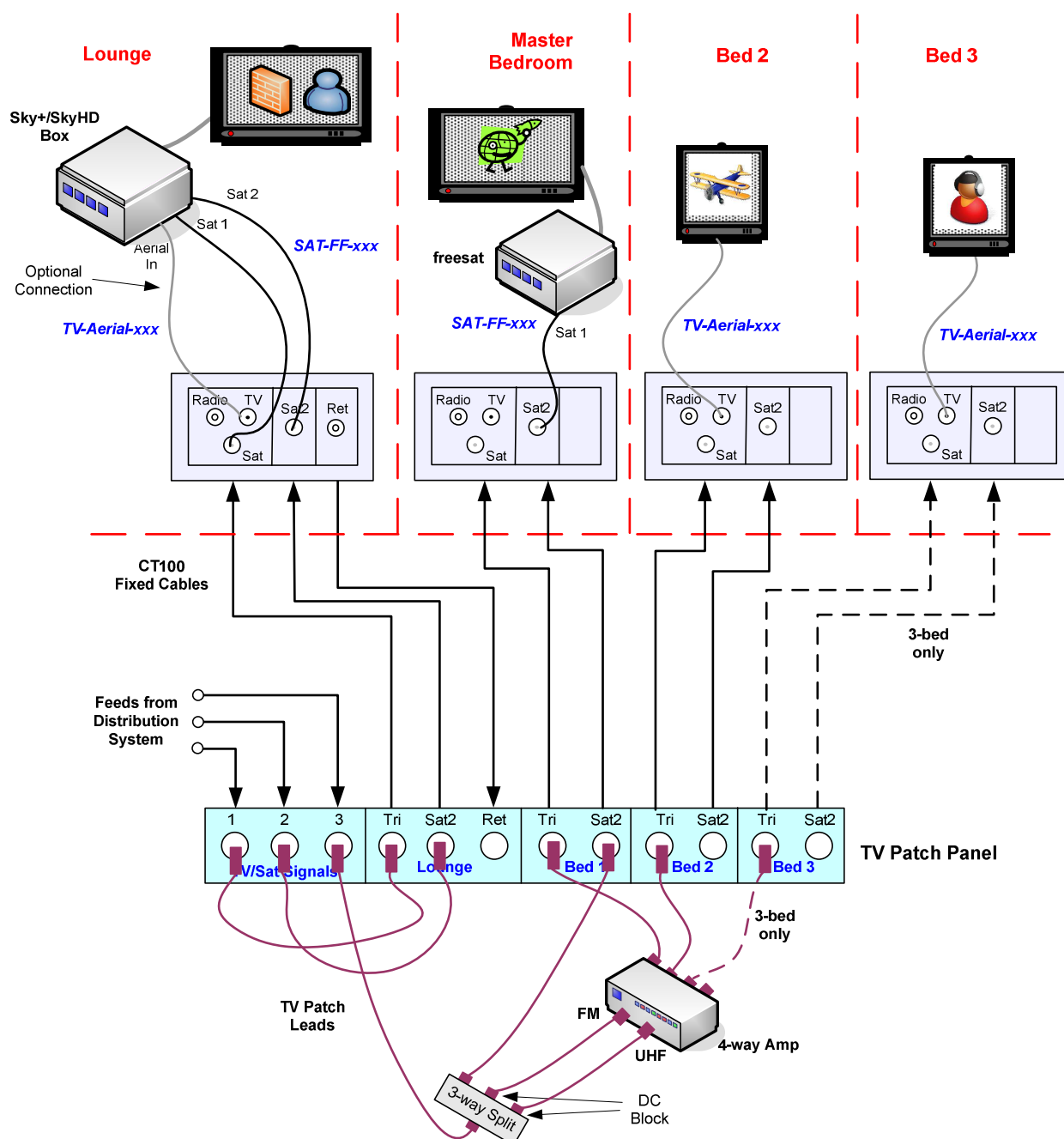
Room	TV	FM/ DABS	Sky or freesat	Sky+ /HD or freesat 2 nd feed
Lounge	✓	✓	✓	✓
Bedroom	✓	✓	✓	



Two/Three Bedroom Apartments

This provides TV/Sky+/SkyHD in the lounge, TV/Sky in the master bedroom and TV in other bedrooms.

Room	TV	FM/ DABS	Sky or freesat	Sky+/HD or freesat 2nd feed
Lounge	✓	✓	✓	✓
Master Bed	✓	✓	✓	
Bedroom 2	✓	✓		
Bedroom 3	✓	✓		



4.5 Use Return from Lounge to View Sky in Bedrooms

The Sky Box has the facility for the Sky to be controlled and viewed on a one or more further TV's in another rooms as an additional analogue channel. Being an analogue modulated signal, the quality of picture in the bedrooms is not typically good enough for displaying on large flat panel displays. However, for small TV sets, this is an ideal way to watch & control the Sky box from the bedroom (as long as the viewer in the lounge wants to watch the same program).

Note:

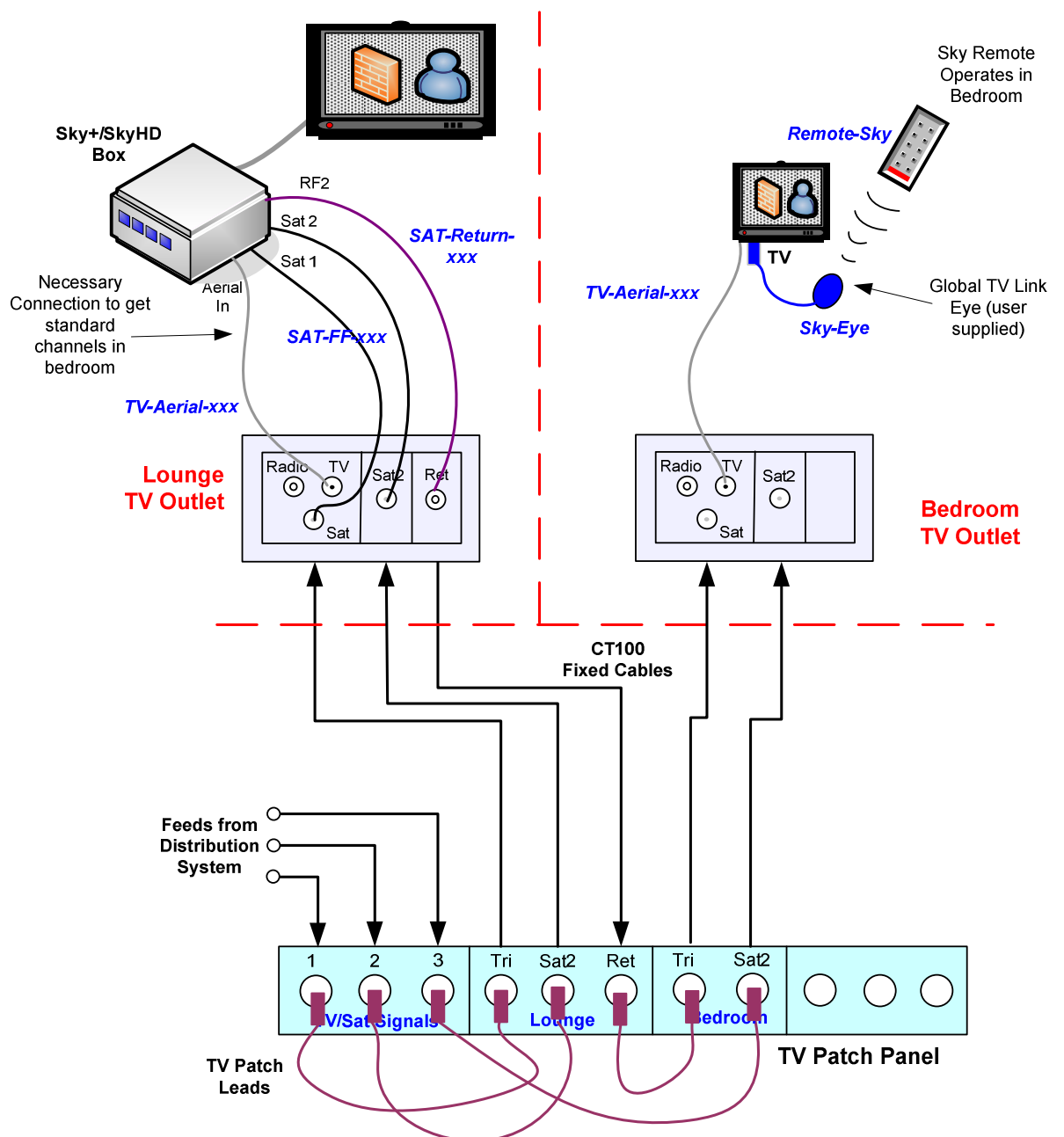
- As well as re-patching the TV patch panel as per the schematic below, an additional Sky Return lead will be required, to connect the Return 2 of the Digibox to the Return outlet on the Lounge Socket (*Sky-Return-xxx*).
- To watch Sky on a Bedroom TV, the TV must be in analogue mode and will require tuning into the Sky channel.

- In order to control the Sky box from a bedroom:
 - A tvLINK (*Sky-Eye*) (often know as Magic eye) infrared repeater and second Sky remote (*Remote-Sky*) will be required. These are available from most TV stores.
 - The Sky Digibox will require setting up through the Installer Menu. The TVlink should come with instructions on how to do this. Alternatively, follow the instructions in Appendix C.
- The Sky Digibox can only output one channel at a time, so in multi-bedroom apartments, the TV's in every bedroom will show the same channel.

One Bedroom Apartments

This example shows moving from Input 3 to the Lounge Return the patch lead which feed the Bedroom. The result is that standard TV plus the Sky program can be watched in the bedroom.

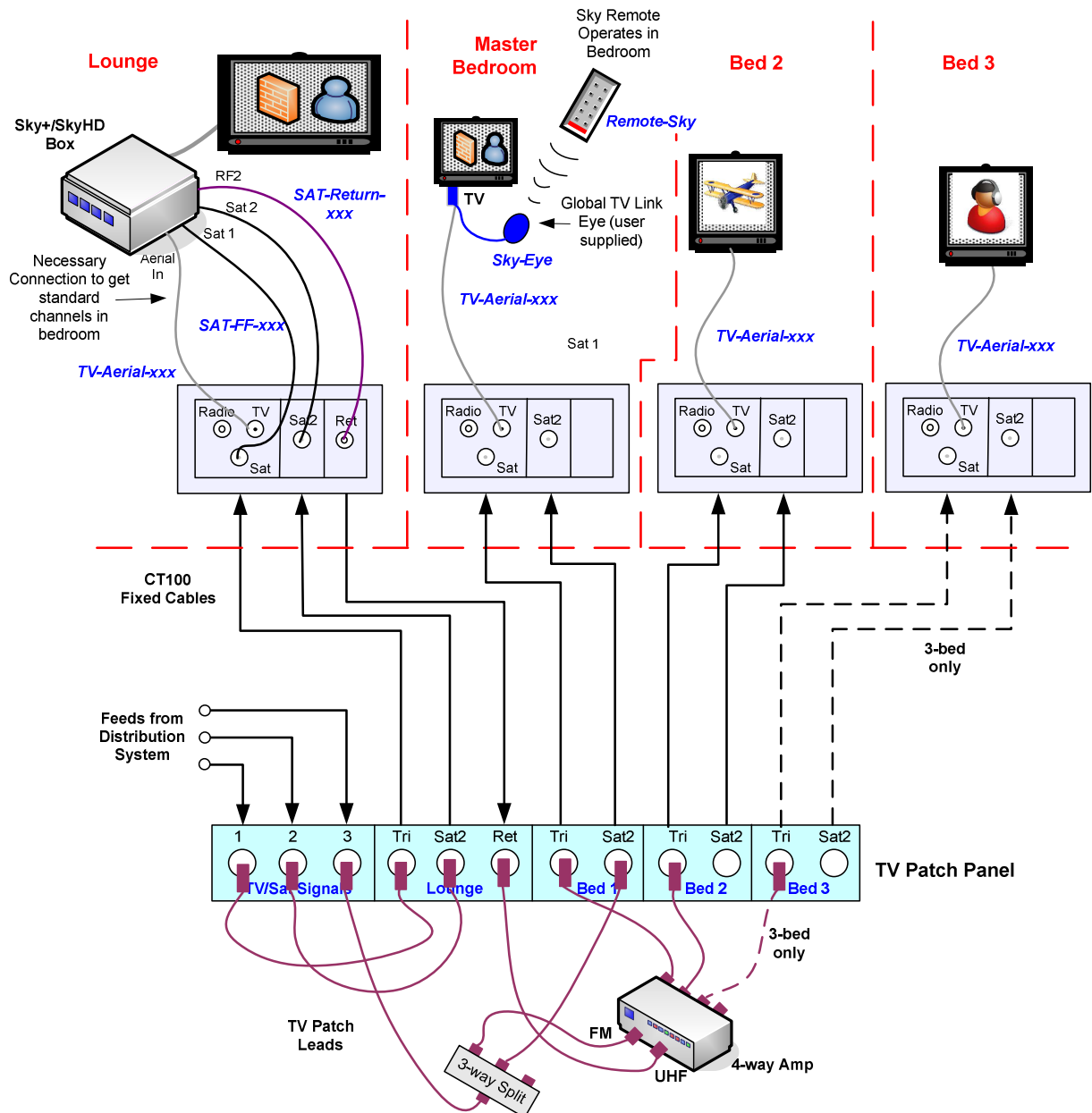
Room	TV	FM/DABS	Sky	Sky+/ HD	Lounge Sky Chan
Lounge	✓	✓	✓	✓	
Bedroom	✓		✓		✓



Two/Three Bedroom Apartments

This example shows connecting the Lounge Return to the input of the amplifier. The result is that standard TV and the Sky program can be watched and controlled in all of bedrooms.

Room	TV	FM/ DABS	Sky	Sky+/ HD	Lounge Sky Chan
Lounge	✓	✓	✓	✓	
Master Bedroom	✓	✓	✓		✓
Bedroom 2	✓	✓			✓
Bedroom 3	✓	✓			✓



4.6 Other Configurations

It is possible to extend the system to provide a number of different configurations, such as:

- Sky+/SkyHD in any of the bedrooms.
- Returns from other equipment, such as DVD or freesat.

To do this you will need to re-configure the patch leads in the equipment cabinet so that the necessary signals appear at the required outlets. Section 3.2 of this manual offers some advice on patching. You should be able to work out what to connect to what by studying the example configurations in this guide, but proceed with care in case you disconnect any of your existing TV services.

For more advice or assistance, please call Able as shown in Section 2.2.

Important

Because of the limited quantity of satellite feeds coming into each dwelling, there is an upper limit on the use of Sky or freesat in a dwelling. A total of no more than three satellite feeds may be used.

Possible combinations are:

- (Sky+/SkyHD or freesat record) and (Sky or freesat)
- 3 x (Sky or freesat)

4.7 Viewing Visitors on the TV Set

It is possible to use your TV to check the identity of visitors at any of the entrances to the building.

At each entrance is fitted TV camera, pointing at visitors outside the entrance. The pictures from these cameras are fed into the TV distribution system and may be viewed on any standard TV with an analogue tuner which is taking its TV signals from the communal system via the TV wall sockets.

To view the entrance on your TV:

- Tune a spare analogue channel on your TV into the appropriate camera channel. The table below shows the channel numbers and frequencies. If you need the ability to view more than one entrance, simply tune each entrance into a different channel. You can also do this with more than one TV.
- When you would like to view the camera picture, switch your TV over to the pre-tuned channel.

Note that this facility is only available for TV's with analogue tuners and when operating in analogue mode. TV's which are using Freeview or Satellite services will need to be switched over to analogue mode before the entrance camera pictures can be viewed.

<i>Entrance</i>	<i>TV Channel</i>	<i>Freq (MHz)</i>
<i>Tower Bridge Road</i>	<i>50</i>	<i>706</i>
<i>Reception</i>	<i>53</i>	<i>730</i>
<i>Rear/Car Park</i>	<i>56</i>	<i>754</i>

5 The Telephone & Data System

5.1 Introduction

There are a number of telephone/data outlets distributed around the dwelling. More precisely, there are two per multimedia plate, so there will be two in the lounge and two per bedroom. These are standard RJ45 Cat5e structured cabling outlets, connected back to the Equipment Cabinet.

The most common use of the data outlets is for plugging in telephones. However, they may also be used for other applications such as computer networking, TV distribution or any other application that can run over standard Cat5e structured cabling.

Additionally, there is one standard telephone outlet per bedroom, typically next to the bed. These are for telephone use only, but also connected back to the Equipment Cabinet.

It is possible, simply by changing the faceplate to convert these to the more general RJ45 Cat5e outlet. However this work is best done by someone with structured cabling expertise.

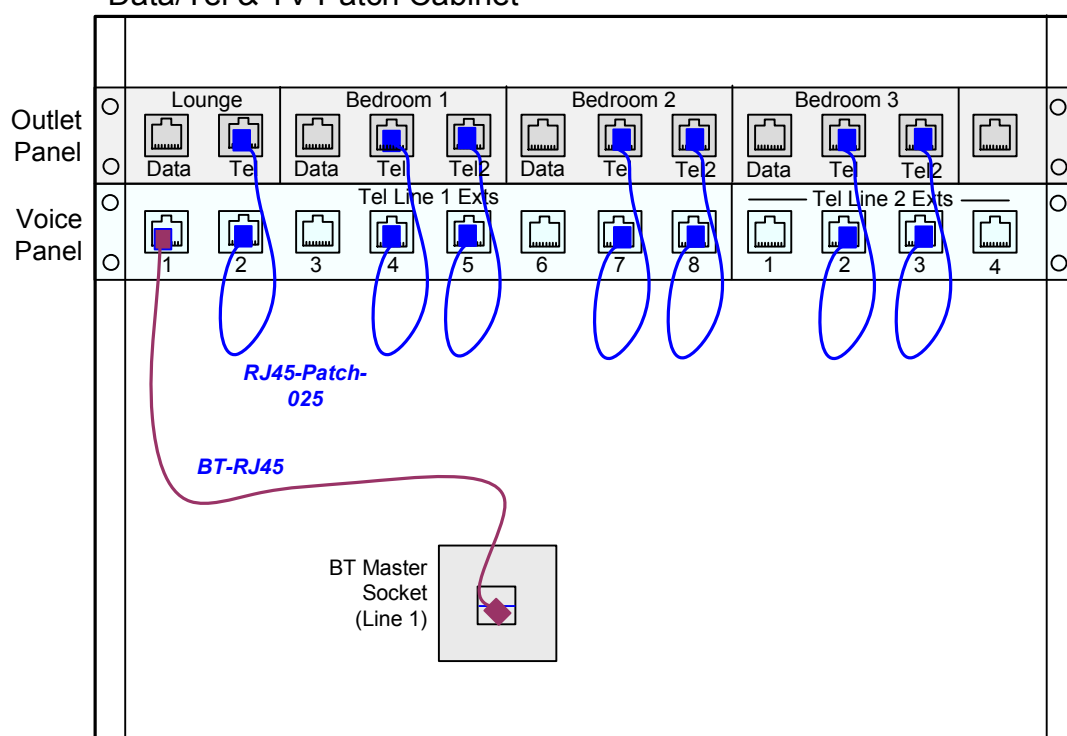
5.2 Inside the Equipment Cabinet

The schematic below shows a typical data panel setup. The patches shown are as Able set them up when the system was first commissioned in April 2008, providing telephone extensions to all of the right hand Multimedia plate data outlets and to the bedside telephone outlets.

Data Panel

There will be one outlet panel in the cabinet. Each socket on this panel is connected to a telephone/data outlet somewhere in the apartment. You will be able to work out which by referring to the labelling.

Data/Tel & TV Patch Cabinet



Voice Panel

The second panel is the voice panel, onto which the BT extensions are presented.

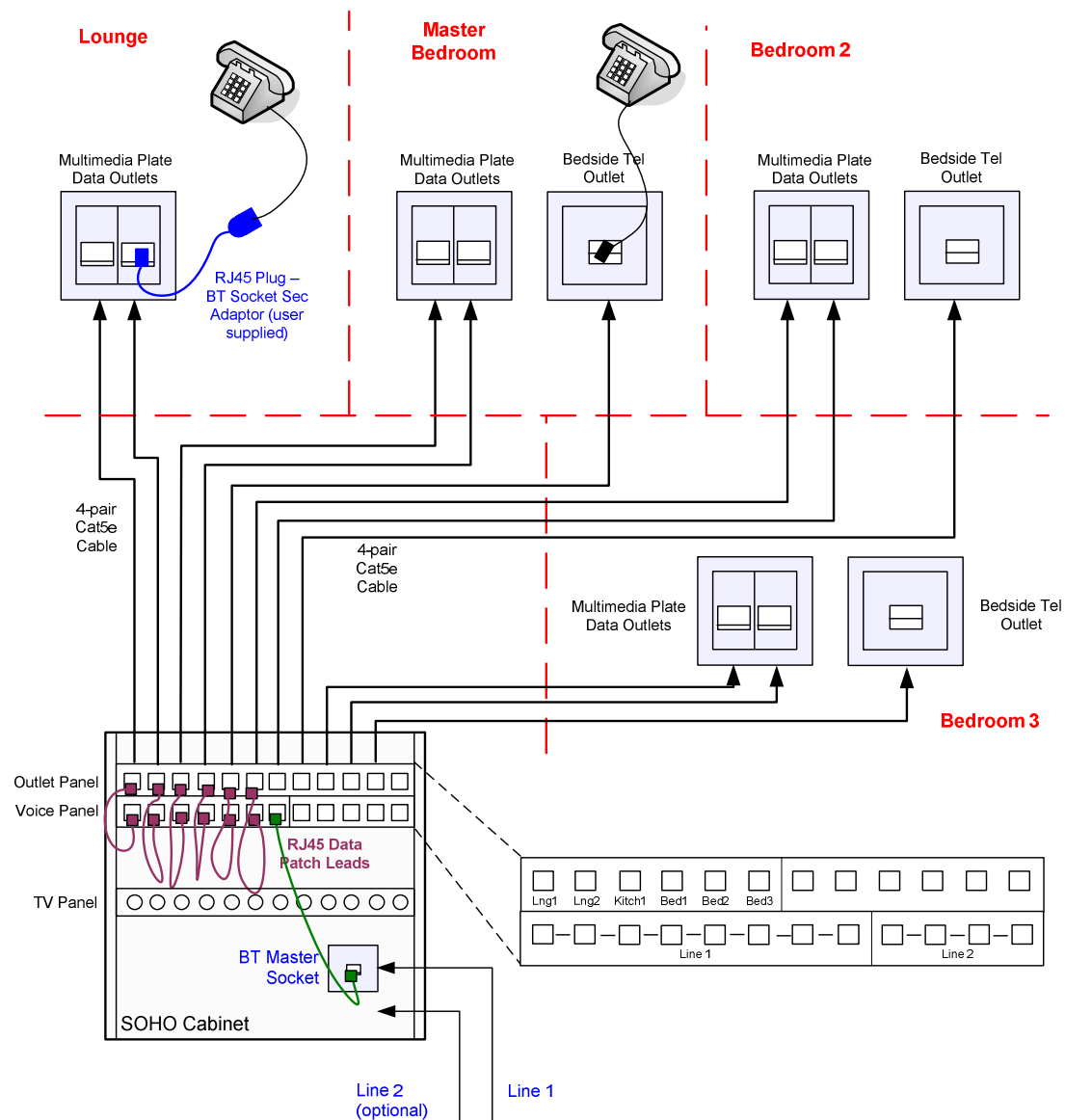
- **Line 1.** The BT primary line will be connected to the eight leftmost sockets on the panel (labelled 1 to 8), which act as eight extensions to that line. Although it is possible to plug a telephone directly into any of these sockets, you would normally patch these sockets to outlet sockets of your choice, allowing you to plug telephones into the wall outlets around the dwelling. By default, all of the outlets are patched for telephone usage.
- **Line 2.** If a second external telephone line is required (for example a fax line), this can be connected to the voice panel and will appear on the remaining four sockets. As per Line 1, these can be patched through to any outlets of your choice. Note that you will need to obtain an additional BT-RJ45 lead ([BT-RJ45](#)) and use this to connect the BT second socket to the voice panel (L2 socket).

For extreme technical types, Appendix A details the voice panel wiring schematic and Appendix B the BT-RJ45 lead pin out.

5.3 Connecting Telephone Extensions

If some of the previous section was a little difficult to follow, do not fear - connecting a telephone is simple:

1. Plug the telephone (or Sky Box) into a free Telephone/Data outlet.
 - For outlets in multi-media plates you will require an RJ45-BT secondary adapter ([Tel-Sec](#)). By default, the right hand side of the two data outlets will be patched as a telephone extension.
 - For the bedside outlets, plug the telephone directly in. By default the outlet will be patched as a telephone extension.
2. If the telephone does not appear connected, check in the Equipment Cabinet whether the outlet that you have just plugged into is patched into a Line 1 extension (1 to 8). If not, use a free RJ45 patch lead ([RJ45-Patch-025](#)) to connect your chosen socket on the data (top) panel to a free socket 1-8 on the voice (bottom) panel.



5.4 Connecting a Second Line

If a second external line is connected, it should be installed by BT as a second BT socket within or next to the equipment cabinet. You will then need to connect from this socket into the L2 socket of the voice panel using a BT-RJ45 lead ([BT-RJ45](#)).

You will then be able to connect telephones and other devices to the second line by patching outlets to the three extensions on the voice panel, as per previous section.

5.5 ADSL Broadband

ADSL is the most popular broadband method of connecting to the Internet.

There are two main schemes for connecting broadband within your dwelling

ADSL Modem/Router in the Equipment Cabinet

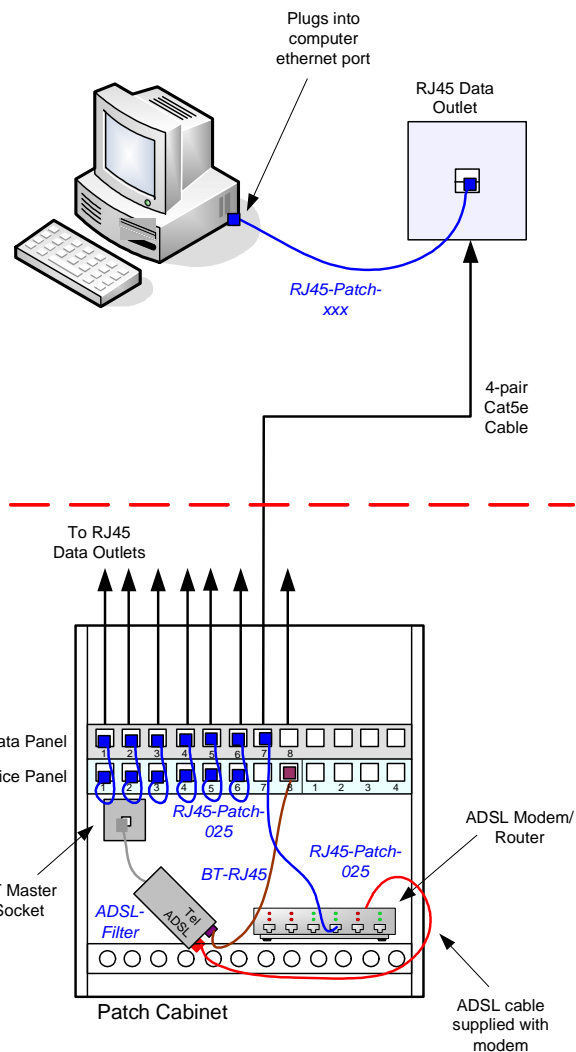
This method provides the most flexible solution.

When ordering the ADSL connection, make sure that it comes with an ADSL modem which provides at least one Ethernet connection. Ideally it will be an ADSL modem/router which also acts as a network switch and which typically provides four network Ethernet ports. Many such modems also provide a wireless interface.

Mount the ADSL modem either in or beside (if it a wireless modem outside the cabinet is much better) the Equipment cabinet and connect it as shown in the schematic. You will then be able to connect one or more PC's to the internet by patching through to the modem as shown. Note that each PC will require an Ethernet interface.

The only down side with this method may be that the network connection uses up a outlet which would otherwise serve as a useful telephone outlet. In this case consider one of the following:

- Use a wireless connection to the computer
- Connect the data and voice links to the same outlet. It is possible to obtain combiners/splitters which allow a telephone & computer to share an outlet.

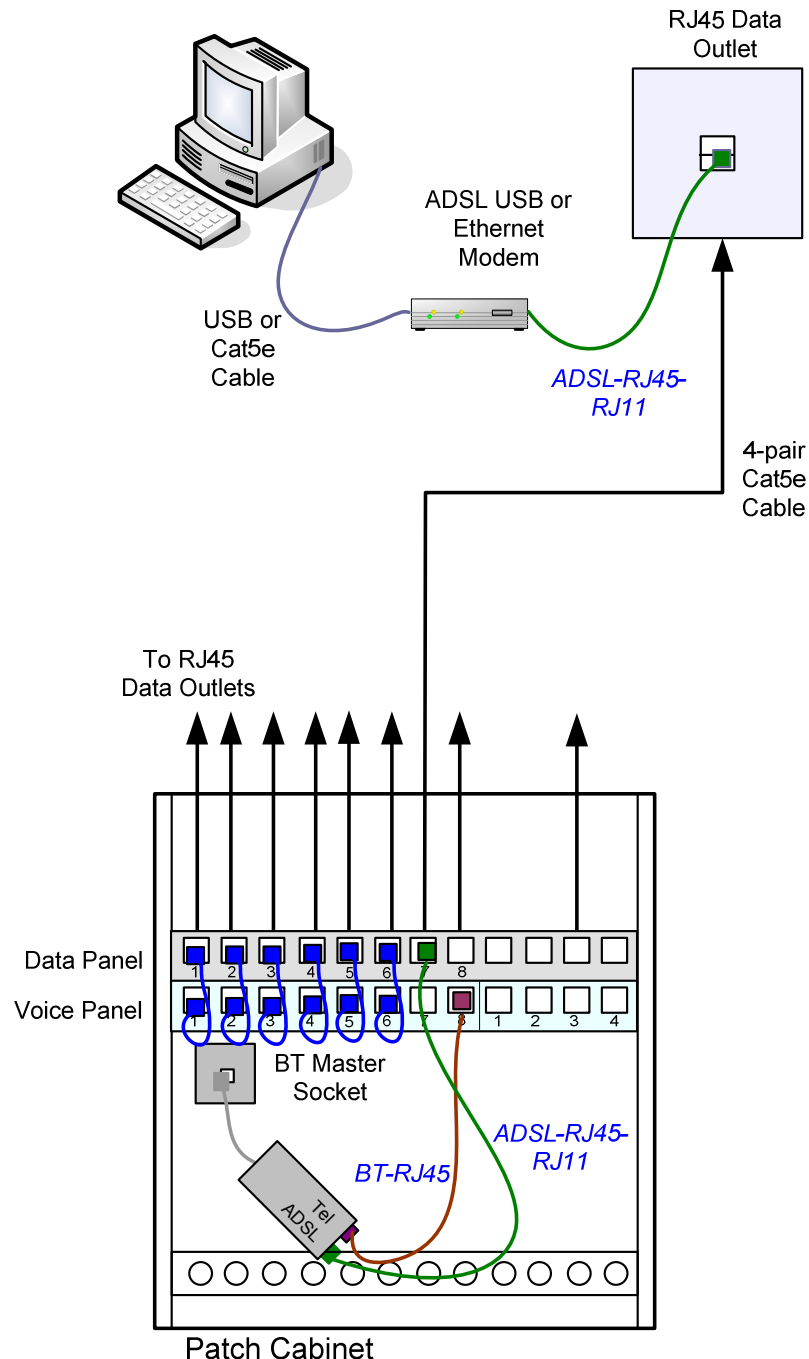


Modem kept in cabinet and connects to one or more computers through structured cabling. Modem may also support a Wireless Interface.

ADSL Modem in the room

The other main method of installing ADSL is to put the modem next to the computer to which it can be directly connected. The modem can then be of any type (USB or an Ethernet router as described in the previous section).

To connect the modem, two RJ45-RJ11 (*ADSL-RJ45-RJ11*) cables will be required, marked in green in the schematic below.



Tip

If you connect a second ADSL filter into the wall outlet designated for the computer (you will need a Tel-sec adapter), as well as the ADSL modem (use the RJ11-RJ11 lead supplied with the modem), you will also be able to connect a telephone/fax.

6 Other Applications

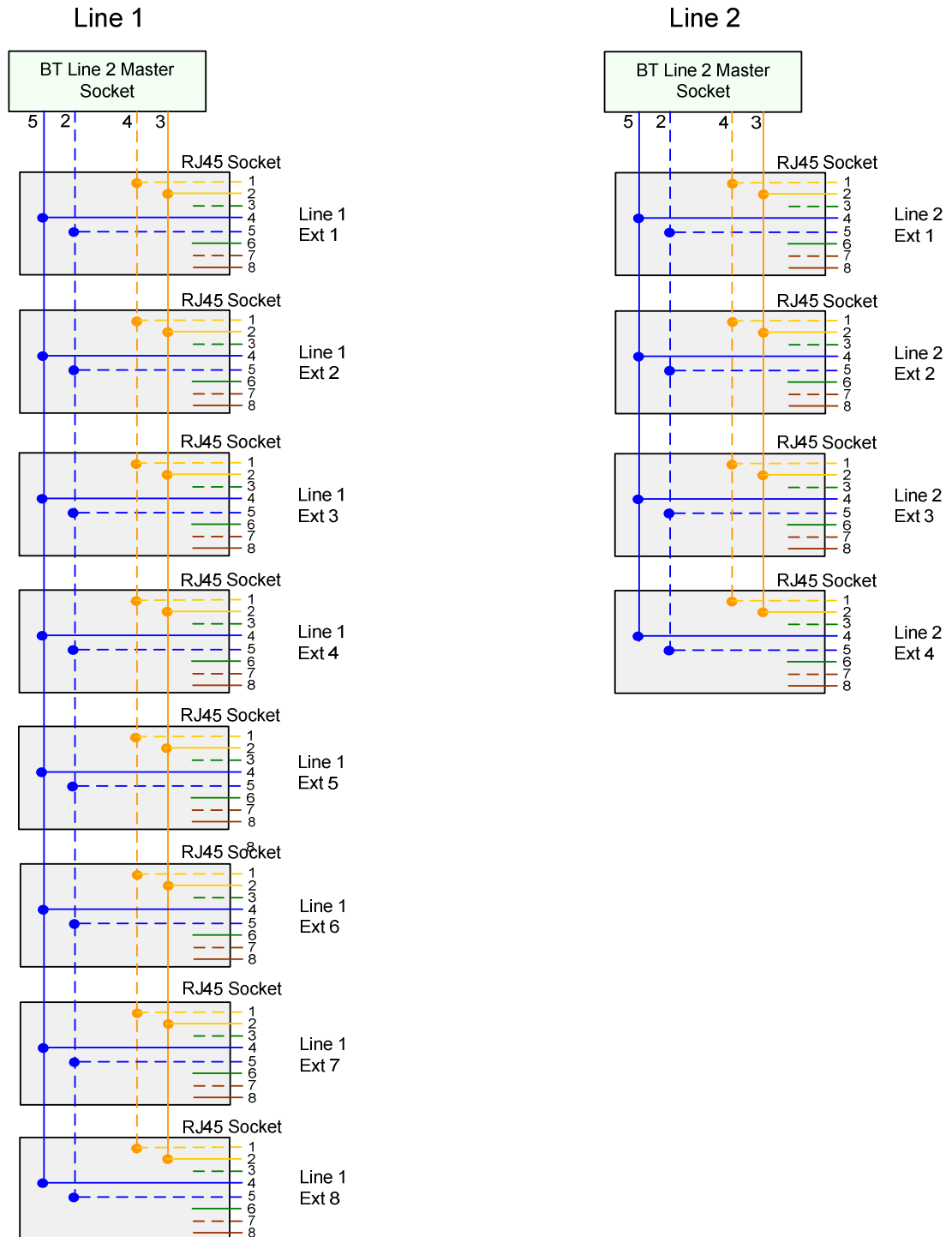
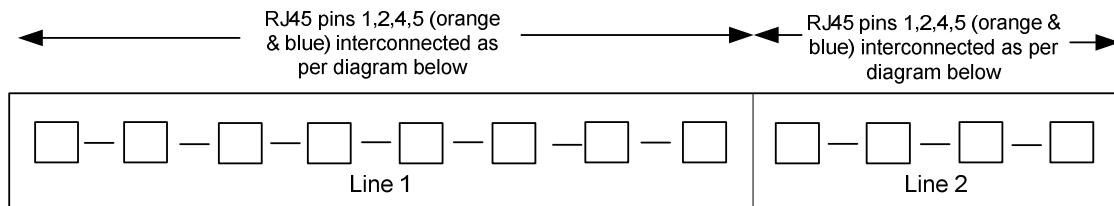
It is possible to extend the system to provide a variety of different functions.

Examples are:

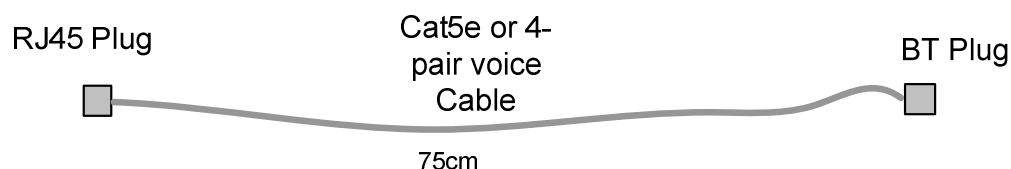
- TV distribution. It is possible to purchase equipment to allow distribution of TV via data cables.
- TV or Music Jukebox.
- Computer Network. It is possible to mount a network switch directly into the equipment cabinet which will allow PC's, printers and other network devices to inter-communicate via the RJ45 Data Sockets.
- Telephone switch. To manage multiple incoming lines and extensions a small business telephone switch could be fitted in the equipment cabinet.

Feel free to Call Able to discuss these ideas. Alternatively visit the Able web site. See Section 2.2 for details.

Appendix A Voice Line Circuit Information

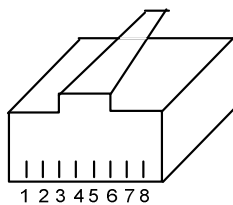


Appendix B BT-RJ45 Patch Lead Schematic

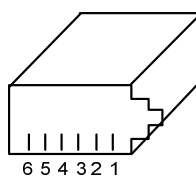


Pin Outs

RJ45 Panel	BT
1 Connected	1 Not Used 1
2 Bell	2 BT Line In B
3 Not Used 1	3 Bell
4 BT Line In A	4 Connected
5 BT Line In B	5 BT Line In A
6 Not Used 2	6 Not Used 2
7 N/A	
8 N/A	



RJ45



BT

All Viewed
front end on

Appendix C Enabling the Sky RF2 Output

By default, a new Sky Box will output nothing from the RF2 output. However once enabled, RF2 will both output the Sky channel to another TV and accept tvLINK remote commands attached to that TV.

To enable RF2:

1. On the Sky remote, select 'System Setup'.



2. Enter in sequence '0', '1' & 'Select'. This will take you to the Installer Setup Menu.



3. Select Option 4 (RF Outlets), taking you to the RF Outlets menu.



4. Set the RF Outlet Power Supply to ON (default is OFF).
5. [Another handy option here is the one to change the RF Channel Number on which the Sky outputs RF and RF2 outputs are set. This may be necessary in order to not conflict with broadcast channels or other equipment such as a VCR or DVD player. A good default channel for Bermondsey Square is 60, which conflict with no broadcast channels]
6. Save New Settings.

Appendix D Commonly Used Leads & Parts

Part No	Description	Use
Telephone		
Tel-Sec	Secondary Cat5 Adapter	Plug telephone into wall sockets
BT-RJ45	BT to RJ45 Lead (0.5m)	Connect BT 1st or 2nd line into SOHO voice panel
ADSL		
ADSL-RJ45-RJ11	ADSL RJ11 to RJ45 Lead	Connect ADSL USB modem to wall socket. Two required.
Cat5e Data/Voice Patch Leads		
RJ45-Patch-025	Cat5e RJ45-RJ45 Patch Lead (0.25m)	General patch lead for SOHO cabinet
RJ45-Patch-100	Cat5e RJ45-RJ45 Patch Lead (1m)	General patch lead for computer into wall
RJ45-Patch-200	Cat5e RJ45-RJ45 Patch Lead (2m)	General patch lead for computer into wall
RJ45-Patch-300	Cat5e RJ45-RJ45 Patch Lead (3m)	General patch lead for computer into wall
Satellite/RF Leads		
SAT-FF-025	Satellite Lead (0.25m) F-plug to F-Plug.	Short TV Sat lead for SOHO cabinet – typically used for patching on panel
SAT-FF-050	Satellite Lead (0.5m) F-plug to F-Plug	Short TV Sat lead for SOHO cabinet – typically used for patching on panel
SAT-FF-200	Satellite Lead (2m) F-plug to F-Plug	TV Sat lead for connecting Sky box to wall socket. Sky+/HD requires two leads.
SAT-FF-300	Satellite Lead (3m) F-plug to F-Plug	TV Sat lead for connecting Sky box to wall socket. Sky+/HD requires two leads.
TV Aerial Leads		
TV-Aerial-200	TV Lead (2m). IEC Male to IEC Female.	TV lead for connecting TV to wall socket or Video to TV.
TV-Aerial-300	TV Lead (3m) IEC Male to IEC Female.	TV lead for connecting TV to wall socket or Video to TV.
Sky Return Leads		
Sky-Return-200	Sky Return to F-Plug (2m). IEC Female to F-Plug.	Connect Return from Sky box to Sat2 wall socket to watch Sky in bedrooms
Sky-Return-300	Sky Return to F-Plug (3m) IEC Female to F-Plug.	Connect Return from Sky box to Sat2 wall socket to watch Sky in bedrooms
TV Parts		
Remote-Sky	Sky Digibox Remote Control	Spare remote. Use with TV Link for remote in 2 nd room.
Remote-Sky+	Sky+/HD Remote Control	Spare Sky+/HD remote. Use with TV Link for remote in 2 nd room.
Sky-Eye	Global TV Link Eye (Black)	Allows control of a Sky Box in another room. May be used with Sky or Sky+/HD.